AMENDMENTS TO THE CLAIMS:

Please cancel claims 2-5 and 7 without prejudice or disclaimer, and amend claims 1 and 6.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A tin-containing plating bath comprising:

- a soluble stannous salt, or
 a mixture of a soluble stannous salt and at least one soluble salt selected from the
 group consisting of copper salts, bismuth salts, silver salts, indium salts, zinc salts,
 nickel salts, cobalt salts and antimony salts; and
- (b) at least one <u>purified</u> aliphatic sulfonic acid selected from the group consisting of alkanesulfonic acids and alkanolsulfonic acids,

 the aliphatic sulfonic acid being a purified aliphatic sulfonic acid in which the total amount of a sulfur-containing compound or compounds having one or more sulfur atoms with an oxidation number of +4 or less in the molecule and a sulfur-containing compound or compounds having one or more sulfur atoms and one or more chlorine atoms in the molecule is a minute amount or less

wherein the purified aliphatic sulfonic acid is one obtained by purifying an aliphatic sulfonic acid which has been produced by hydrolyzing an alkylsulfonyl halide,

the content of dimethyldisulfide in the plating bath is less than 200 ppm,

the content of S-methyl methanethiosulfonate in the plating bath is less than 4 ppm,

the content of α -chlorodimethylsulfone in the plating bath is less than 4 ppm, and

the content of α -methylsulfonyl- α , α -dichlorodimethylsulfone in the plating bath is less than

<u>4 ppm</u>.

Claims 2-5 (Canceled).

Claim 6 (Currently Amended). The tin-containing plating bath according to claim 1 wherein

the compounds having one or more sulfur atoms with an oxidation number of +4 or less in the

molecule are dimethyldisulfide and S-methyl methanethiosulfonate, and the compounds having one

or more sulfur atoms and one or more chlorine atoms in the molecule are α-chlorodimethylsulfone

and α-methylsulfonyl-α,α-dichlorodimethylsulfone;

at least two sulfur-containing compounds selected from the group consisting of

dimethyldisulfide, S-methyl methanethiosulfonate, α-chlorodimethylsulfone and α-methylsulfonyl-

 α,α -dichlorodimethylsulfone are present in the plating bath; and

the total content of the sulfur-containing compounds in the plating bath is less than 2 ppm.

Claim 7 (Canceled).

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Claim 8 (Original): The tin-containing plating bath according to claim 1 wherein the purified

aliphatic sulfonic acid is one obtained by subjecting an aliphatic sulfonic acid to concentration under

reduced pressure while heating.

Claim 9 (Original): The tin-containing plating bath according to claim 1 wherein the purified

aliphatic sulfonic acid is one obtained by subjecting an aliphatic sulfonic acid to solid phase

extraction in which the aliphatic sulfonic acid is brought into contact with an adsorbent.

Claim 10 (Original): The tin-containing plating bath according to claim 9 wherein the

purified aliphatic sulfonic acid is one obtained by subjecting an aliphatic sulfonic acid to solid phase

extraction at least twice, using the same or different kinds of adsorbents.

Claim 11 (Original): The tin-containing plating bath according to claim 1 wherein the

purified aliphatic sulfonic acid is one obtained by subjecting an aliphatic sulfonic acid to a

combination of concentration under reduced pressure and solid phase extraction.

Claim 12 (Original): The tin-containing plating bath according to claim 1 wherein the

alkanesulfonic acid is methanesulfonic acid.

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Claim 13 (Original): A bump-forming method comprising forming a bump with the use of the plating bath of claim 1.